

### AMENDMENTS TO THE CLAIMS

1. (Canceled)
2. (Currently Amended) The fluorocarbon emulsion according to claim ~~[[1]]~~ 25, further comprising 2 – 40% by vol. fluorocarbon compounds.
3. (Currently Amended) The fluorocarbon emulsion according to claim ~~[[1]]~~ 25, wherein a composition of rapidly eliminated fluorocarbon compounds contains perfluorodecaline and perfluorooctylbromide in a ratio between 10 : 1 and 1 : 10.
4. (Currently Amended) The fluorocarbon emulsion according to claim ~~[[1]]~~ 25, wherein the fluorocarbon supplement contains 1 to 50% of a total content of a composition of rapidly eliminated fluorocarbon compounds.
5. (Currently Amended) The fluorocarbon emulsion according to claim ~~[[1]]~~ 25, wherein the mixture of perfluorinated tertiary amines contains a mixture of perfluorotripropylamine and coproducts thereof, including cis-

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und trans-isomers of perfluoro-1-propyl-3,4-dimethylpyrrolidone and perfluoro-1-propyl-4-methylpiperidine.

6. (Previously Presented) The fluorocarbon emulsion according to claim 5, wherein the mixture of perfluorinated tertiary amines contains in addition perfluoro-N-methylcyclohexylpiperidine and coproducts thereof.

7. (Currently Amended) The fluorocarbon emulsion according to claim ~~[[1]]~~ 24, further comprising ~~[[a]]~~ the phospholipid dispersion in ~~[[a]]~~ the water-salt medium in a concentration of 0.2 to 5% by weight.

8. (Currently Amended) The fluorocarbon emulsion according to claim ~~[[1]]~~ 24, wherein the phospholipid dispersion in the water-salt medium contains one of egg phospholipids, soya phospholipids, ~~and~~ phospholipids or a mixture thereof.

9. (Currently Amended) The fluorocarbon emulsion according to claim ~~[[1]]~~ 24, wherein the phospholipid dispersion in the water-salt medium contains as adjuvant vegetable oil in a quantity of 1 - 15% of the total content of the phospholipids.

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10. (Previously Presented) The fluorocarbon emulsion according to claim 9, wherein soya oil serves as adjuvant.

11. (Previously Presented) The fluorocarbon emulsion according to claim 9, wherein sunflower seed oil serves as adjuvant.

12. (Previously Presented) The fluorocarbon emulsion according to claim 9, wherein ricinus oil serves as adjuvant.

13. (Previously Presented) The fluorocarbon emulsion according to claim 9, wherein a mixture of the oils in an effective ratio in a form of one of a twofold mixture and a threefold mixture serves as adjuvant.

14. (Currently Amended) The fluorocarbon emulsion according to claim ~~[[1]]~~ 24, wherein the composition of the water-salt medium contains sodium salts and potassium salts of chlorides and phosphates and the monosaccharide mannitol in injection water.

15. (Currently Amended) The fluorocarbon emulsion according to claim ~~[[1]]~~ 24, wherein a concentration of components in the water-salt medium has an osmotic pressure in the range of 100 - 350 mosmol/l.

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16. (Previously Presented) The fluorocarbon emulsion according to claim 15, wherein a mean particle size is equal to or less than 0.2  $\mu\text{m}$  and is in a range of 0.06 – 0.2  $\mu\text{m}$ .

17. (Currently Amended) A method for producing a fluorocarbon emulsion ~~which includes a homogenization under high pressure~~, the method comprising:

a first step of producing a phospholipid dispersion in a water-salt medium, a second step of homogenization of the fluorocarbon compounds in the phospholipid dispersion, a third step of heat sterilization of the produced emulsion, and a fourth step of subsequent storage of at least 6 months in a non-frozen state at a temperature of +4°C.

18. (Previously Presented) The method according to claim 17, wherein the phospholipid dispersion in the water-salt medium is produced by homogenization at a high pressure of at least 100 atm with subsequent heat sterilization.

19. (Previously Presented) The method according to claim 17, wherein the fluorocarbon compounds in the phospholipid dispersion are homogenized at a pressure of 300 atm to 650 atm.

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20. (Currently Amended) The method according to claim 17, wherein at least one of the phospholipid dispersion or the fluorocarbon emulsion is sterilized at 100°C.

21. (Canceled)

22. (Currently Amended) The fluorocarbon emulsion according to claim [[1]] 25, wherein the mixture of perfluorinated tertiary amines contains in addition perfluoro-N-methylcyclohexylpiperidine and coproducts thereof.

23. (Currently Amended) The fluorocarbon emulsion according to claim [[1]] 24, wherein a mean particle size is equal to or less than 0.2  $\mu\text{m}$  and is in a range of 0.06 – 0.2  $\mu\text{m}$ .

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24. (New) A fluorocarbon emulsion for medicinal purposes, comprising:

a water-salt medium;

a phospholipid emulsifier dispersed in the water-salt medium; and

a fluorocarbon compound homogenized with the phospholipid dispersion.

25. (New) The fluorocarbon emulsion according to claim 24, further comprising a plurality of fluorocarbon compounds including a composition of perfluorodecaline and perfluorooctylbromide used as a rapidly eliminated component and a fluorocarbon supplement including a mixture of perfluorinated tertiary amines.